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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/752,135	01/06/2004	David E. Francischelli	P-8922.06	3918
27581	7590	07/25/2005	EXAMINER	
MEDTRONIC, INC. 710 MEDTRONIC PARKWAY NE MS-LC340 MINNEAPOLIS, MN 55432-5604			ROLLINS, ROSILAND STACIE	
			ART UNIT	PAPER NUMBER
			3739	

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/752,135	Applicant(s) FRANCICHELLI	
	Examiner Rosiland S. Rollins	Art Unit 3739	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/6</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 6, 7, 8, 9, 12 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitekunas et al. (US 5707369) further in view of Stern et al. (US 5443643).

Vaitekunas et al. disclose a system for assessing transmural ablation of an ablation in a tissue comprising: an ablation apparatus (18) operatively adapted to ablate a first side of the tissue, a temperature-sensor (20: col. 2 lines 38-50) operatively adapted to sense temperature along a second side of the tissue, and an output device (col. 2 lines 50-61) in communication with the pad, the output device operatively adapted to indicate the temperature of the tissue. Vaitekunas et al teach all of the limitations of the claims except the temperature sensor being a pad. Stern et al. disclose a similar device and teach that it is old and well known in the art to provide a temperature sensor pad (figure 6) which, provides a process at a stabilized and controlled temperature so that all areas underneath the pad would be treated in a uniform manner without "hot spots".

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a temperature sensor pad on the Vaitekunas et al. device as taught by Stern et al. to provide uniform delivery of power without "hot spots".

Regarding claim 2, the pad comprises temperature- sensing elements incorporated therein is illustrated in figure 6 of Stern et al.

Regarding claim 3, Stern et al. is capable of the temperature of the tissue indicated by the output device corresponding to transmural of the lesion.

Regarding claim 4, the temperature-sensing elements arranged in a grid pattern is illustrated in figure 6 of Stern et al.

Regarding claims 6 and 7, an output device including an amplifier for amplifying a signal received from the temperature-sensing pad and a processor for processing a signal received from the temperature-sensing pad is disclosed in column 5 lines 7-42 of Vaitekunas et al.

Regarding claim 12 the temperature-sensing elements are operatively adapted to be located within the tissue.

Regarding claim 16 the pad, as illustrated in figure 6 of Stern et al. comprises a conductive element (330) incorporated therein.

Regarding claims 8 and 9 it would have been obvious to one of ordinary skill in the art at the time the invention was made to select a thermistor or thermocouple as the temperature sensor since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice.

Claims 5, 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitekunas et al. and Stern et al. further in view of Chinn (US 5647868).

Vaitekunas et al. and Stern et al. combined teach all of the limitations of the claims except the output device displaying a representation of the grid pattern. Chinn discloses a similar device that includes a temperature acquisition and data processor center that displays the temperature data so that the operator can easily view the data. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to include an output device that displayed a representation of the grid pattern as taught by Chinn, to provide a means of presenting the information to the user in an efficient manner.

Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitekunas et al. and Stern et al further in view of Hoffman (US 4682605).

Vaitekunas et al. and Stern et al. combined teach all of the limitations of the claims except the temperature-sensing elements being temperature-sensing liquid crystals or are temperature-sensing chemicals. Hoffman discloses that it is old and well known in the art to provide liquid crystals or temperature-sensing chemicals as a temperature sensor on a biofeedback device to provide a detailed temperature resolution over a broad temperature range. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a temperature-sensing liquid crystal or are temperature-sensing chemical as the temperature sensing element of the Vaitekunas et al. and Stern et al. combined device to enhance the accuracy of the temperature measurement.

Claims 13-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaitekunas et al. and Stern et al further in view of Zarudiansky (US 4414984).

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Vaitekunas et al. and Stern et al. combined teach all of the limitations of the claims except the pad being mounted on a glove, the pad being formed as a portion of a glove or pad is operatively adapted to be fitted over a finger. Zarudiansky teaches that it is old and well known in the art to provide a temperature-sensing element in the form of a glove to enhance the accuracy of measuring the temperature data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the temperature sensor of the Vaitekunas et al. and Stern et al. combined device as a glove to enhance the accuracy of measuring the temperature.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosiland S. Rollins whose telephone number is (571) 272-4772. The examiner can normally be reached on Mon.-Fri. 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Rosiland S Rollins
Primary Examiner
Art Unit 3739